

SEQUENCE LISTING

<110> Bristol-Myers Squibb Company

<120> A NOVEL HUMAN G-PROTEIN COUPLED RECEPTOR, HGPRBMY23, EXPRESSED HIGHLY IN KIDNEY

<130> D0077 NP

<150> US 60/251,926
<151> 2000-12-07

<150> US 60/269,795
<151> 2001-02-14

<160> 55

<170> PatentIn version 3.0

<210> 1
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<212> DNA
<213> homo sapiens

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Asn Glu Pro Leu Asp Tyr Leu Ala Asn Ala Ser Asp Phe Pro Asp Tyr
5 10 15

gca gct gct ttt gga aat tgc act gat gaa aac atc cca ctc aag atg 152
Ala Ala Ala Phe Gly Asn Cys Thr Asp Glu Asn Ile Pro Leu Lys Met
20 25 30

cac tac ctc cct gtt att tat ggc att atc ttc ctc gtg gga ttt cca 200
His Tyr Leu Pro Val Ile Tyr Gly Ile Ile Phe Leu Val Gly Phe Pro
35 40 45

ggc aat gca gta gtg ata tcc act tac att ttc aaa atg aga cct tgg 248
Gly Asn Ala Val Val Ile Ser Thr Tyr Ile Phe Lys Met Arg Pro Trp
50 55 60 65

aag agc agc acc atc att atg ctg aac ctg gcc tgc aca gat ctg ctg 296
Lys Ser Ser Thr Ile Ile Met Leu Asn Leu Ala Cys Thr Asp Leu Leu
70 75 80

tat ctg acc agc ctc ccc ttc ctg att cac tac tat gcc agt ggc gaa 344
Tyr Leu Thr Ser Leu Pro Phe Leu Ile His Tyr Tyr Ala Ser Gly Glu
85 90 95

DNA SEQUENCER

aac tgg atc ttt gga gat ttc atg tgt aag ttt atc cgc ttc agc ttc Asn Trp Ile Phe Gly Asp Phe Met Cys Lys Phe Ile Arg Phe Ser Phe 100 105 110	392
cat ttc aac ctg tat agc agc atc ctc ttc ctc acc tgt ttc agc atc His Phe Asn Leu Tyr Ser Ser Ile Leu Phe Leu Thr Cys Phe Ser Ile 115 120 125	440
ttc cgc tac tgt gtg atc att cac cca atg agc tgc ttt tcc att cac Phe Arg Tyr Cys Val Ile Ile His Pro Met Ser Cys Phe Ser Ile His 130 135 140 145	488
aaa act cga tgt gca gtt gta gcc tgt gct gtg gtg tgg atc att tca Lys Thr Arg Cys Ala Val Val Ala Cys Ala Val Val Trp Ile Ile Ser 150 155 160	536
ctg gta gct gtc att ccg atg acc ttc ttg atc aca tca acc aac agg Leu Val Ala Val Ile Pro Met Thr Phe Leu Ile Thr Ser Thr Asn Arg 165 170 175	584
acc aac aga tca gcc tgt ctc gac ctc acc agt tcg gat gaa ctc aat Thr Asn Arg Ser Ala Cys Leu Asp Leu Thr Ser Ser Asp Glu Leu Asn 180 185 190	632
act att aag tgg tac aac ctg att ttg act gca act act ttc tgc ctc Thr Ile Lys Trp Tyr Asn Leu Ile Leu Thr Ala Thr Thr Phe Cys Leu 195 200 205	680
ccc ttg gtg ata gtg aca ctt tgc tat acc acg att atc cac act ctg Pro Leu Val Ile Val Thr Leu Cys Tyr Thr Ile Ile His Thr Leu 210 215 220 225	728
acc cat gga ctg caa act gac agc tgc ctt aag cag aaa gca cga agg Thr His Gly Leu Gln Thr Asp Ser Cys Leu Lys Gln Lys Ala Arg Arg 230 235 240	776
cta acc att ctg cta ctc ctt gca ttt tac gta tgt ttt tta ccc ttc Leu Thr Ile Leu Leu Leu Ala Phe Tyr Val Cys Phe Leu Pro Phe 245 250 255	824
cat atc ttg agg gtc att cgg atc gaa tct cgc ctg ctt tca atc agt His Ile Leu Arg Val Ile Arg Ile Glu Ser Arg Leu Leu Ser Ile Ser 260 265 270	872
tgt tcc att gag aat cag atc cat gaa gct tac atc gtt tct aga cca Cys Ser Ile Glu Asn Gln Ile His Glu Ala Tyr Ile Val Ser Arg Pro 275 280 285	920
tta gct gct ctg aac acc ttt ggt aac ctg tta cta tat gtg gtg gtc Leu Ala Ala Leu Asn Thr Phe Gly Asn Leu Leu Tyr Val Val Val 290 295 300 305	968
agc gac aac ttt cag cag gct gtc tca aca gtg aga tgc aaa gta Ser Asp Asn Phe Gln Gln Ala Val Cys Ser Thr Val Arg Cys Lys Val 310 315 320	1016
agc qgg aac ctt gag caa gca aag aaa att agt tac tca aac aac cct	1064

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tgaaaatattt catttac 1081

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<213> homo sapiens

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Met His Tyr Leu Pro Val Ile Tyr Gly Ile Ile Phe Leu Val Gly Phe
35 40 45

Pro Gly Asn Ala Val Val Ile Ser Thr Tyr Ile Phe Lys Met Arg Pro
50 55 60

Trp Lys Ser Ser Thr Ile Ile Met Leu Asn Leu Ala Cys Thr Asp Leu
65 70 75 80

Leu Tyr Leu Thr Ser Leu Pro Phe Leu Ile His Tyr Tyr Ala Ser Gly
85 90 95

Glu Asn Trp Ile Phe Gly Asp Phe Met Cys Lys Phe Ile Arg Phe Ser
100 105 110

Phe His Phe Asn Leu Tyr Ser Ser Ile Leu Phe Leu Thr Cys Phe Ser
115 120 125

Ile Phe Arg Tyr Cys Val Ile Ile His Pro Met Ser Cys Phe Ser Ile
130 135 140

His Lys Thr Arg Cys Ala Val Val Ala Cys Ala Val Val Trp Ile Ile
145 150 155 160

Ser Leu Val Ala Val Ile Pro Met Thr Phe Leu Ile Thr Ser Thr Asn
165 170 175

Arg Thr Asn Arg Ser Ala Cys Leu Asp Leu Thr Ser Ser Asp Glu Leu
180 185 190

Asn Thr Ile Lys Trp Tyr Asn Leu Ile Leu Thr Ala Thr Thr Phe Cys
195 200 205

Leu Pro Leu Val Ile Val Thr Leu Cys Tyr Thr Thr Ile Ile His Thr
210 215 220

Leu Thr His Gly Leu Gln Thr Asp Ser Cys Leu Lys Gln Lys Ala Arg
225 230 235 240

Arg Leu Thr Ile Leu Leu Leu Ala Phe Tyr Val Cys Phe Leu Pro
245 250 255

Phe His Ile Leu Arg Val Ile Arg Ile Glu Ser Arg Leu Leu Ser Ile
260 265 270

Ser Cys Ser Ile Glu Asn Gln Ile His Glu Ala Tyr Ile Val Ser Arg
275 280 285

Pro Leu Ala Ala Leu Asn Thr Phe Gly Asn Leu Leu Tyr Val Val
290 295 300

Val Ser Asp Asn Phe Gln Gln Ala Val Cys Ser Thr Val Arg Cys Lys
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Val Ser Gly Asn Leu Glu Gln Ala Lys Lys Ile Ser Tyr Ser Asn Asn
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<213> GALLUS GALLUS

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35 40 45

Leu Val Phe Ile Thr Gly Phe Leu Gly Asn Ser Val Ala Ile Trp Met
50 55 60

Phe Val Phe His Met Arg Pro Trp Ser Gly Ile Ser Val Tyr Met Phe
65 70 75 80

Asn Leu Ala Leu Ala Asp Phe Leu Tyr Val Leu Thr Leu Pro Ala Leu
85 90 95

Ile Phe Tyr Tyr Phe Asn Lys Thr Asp Trp Ile Phe Gly Asp Val Met
100 105 110

Cys Lys Leu Gln Arg Phe Ile Phe His Val Asn Leu Tyr Gly Ser Ile
115 120 125

Leu Phe Leu Thr Cys Ile Ser Val His Arg Tyr Thr Gly Val Val His
130 135 140

Pro Leu Lys Ser Leu Gly Arg Leu Lys Lys Asn Ala Val Tyr Val
145 150 155 160

Ser Ser Leu Val Trp Ala Leu Val Val Ala Val Ile Ala Pro Ile Leu
165 170 175

Phe Tyr Ser Gly Thr Gly Val Arg Arg Asn Lys Thr Ile Thr Cys Tyr
180 185 190

Asp Thr Thr Ala Asp Glu Tyr Leu Arg Ser Tyr Phe Val Tyr Ser Met
195 200 205

Cys Thr Thr Val Phe Met Phe Cys Ile Pro Phe Ile Val Ile Leu Gly
210 215 220

Cys Tyr Gly Leu Ile Val Lys Ala Leu Ile Tyr Lys Asp Leu Asp Asn
225 230 235 240

Ser Pro Leu Arg Arg Lys Ser Ile Tyr Leu Val Ile Ile Val Leu Thr
245 250 255

Val Phe Ala Val Ser Tyr Leu Pro Phe His Val Met Lys Thr Leu Asn
260 265 270

Leu Arg Ala Arg Leu Asp Phe Gln Thr Pro Gln Met Cys Ala Phe Asn
275 280 285

Asp Lys Val Tyr Ala Thr Tyr Gln Val Thr Arg Gly Leu Ala Ser Leu
290 295 300

Asn Ser Cys Val Asp Pro Ile Leu Tyr Phe Leu Ala Gly Asp Thr Phe
305 310 315 320

Arg Arg Arg Leu Ser Arg Ala Thr Arg Lys Ser Ser Arg Arg Ser Glu
325 330 335

Pro Asn Val Gln Ser Lys Ser Glu Glu Met Thr Leu Asn Ile Leu Thr
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Glu Tyr Lys Gln Asn Gly Asp Thr Ser Leu
355 360

<210> 4
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<213> MELEAGRIS GALLOPAVO

<400> 4

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Leu Thr Lys Thr Gly Phe Gln Phe Tyr Tyr Leu Pro Thr Val Tyr Ile
35 40 45

Leu Val Phe Ile Thr Gly Phe Leu Gly Asn Ser Val Ala Ile Trp Met
50 55 60

Phe Val Phe His Met Arg Pro Trp Ser Gly Ile Ser Val Tyr Met Phe
65 70 75 80

Asn Leu Ala Leu Ala Asp Phe Leu Tyr Val Leu Thr Leu Pro Ala Leu
85 90 95

Ile Phe Tyr Tyr Phe Asn Lys Thr Asp Trp Ile Phe Gly Asp Val Met
100 105 110

Cys Lys Leu Gln Arg Phe Ile Phe His Val Asn Leu Tyr Gly Ser Ile
115 120 125

Leu Phe Leu Thr Cys Ile Ser Val His Arg Tyr Thr Gly Val Val His
130 135 140

Pro Leu Lys Ser Leu Gly Arg Leu Lys Lys Asn Ala Val Tyr Val
145 150 155 160

Ser Ser Leu Val Trp Ala Leu Val Val Ala Val Ile Ala Pro Ile Leu
165 170 175

Phe Tyr Ser Gly Thr Gly Val Arg Arg Asn Lys Thr Ile Thr Cys Tyr
180 185 190

Asp Thr Thr Ala Asp Glu Tyr Leu Arg Ser Tyr Phe Val Tyr Ser Met
195 200 205

Cys Thr Thr Val Phe Met Phe Cys Ile Pro Phe Ile Val Ile Leu Gly
210 215 220

Cys Tyr Gly Leu Ile Val Lys Ala Leu Ile Tyr Lys Asp Leu Asp Asn
225 230 235 240

MUSCULUS

Ser Pro Leu Arg Arg Lys Ser Ile Tyr Leu Val Ile Ile Val Leu Thr
245 250 255

Val Phe Ala Val Ser Tyr Leu Pro Phe His Val Met Lys Thr Leu Asn
260 265 270

Leu Arg Ala Arg Leu Asp Phe Gln Thr Pro Gln Met Cys Ala Phe Asn
275 280 285

Asp Lys Val Tyr Ala Thr Tyr Gln Val Thr Arg Gly Leu Ala Ser Leu
290 295 300

Asn Ser Cys Val Asp Pro Ile Leu Tyr Phe Leu Ala Gly Asp Thr Phe
305 310 315 320

Arg Arg Arg Leu Ser Arg Ala Thr Arg Lys Ser Ser Arg Arg Ser Glu
325 330 335

Pro Asn Val Gln Ser Lys Ser Glu Glu Met Thr Leu Asn Ile Leu Thr
340 345 350

Glu Tyr Lys Gln Asn Gly Asp Thr Ser Leu
355 360

<210> 5
<211> 373
<212> PRT
<213> MUS MUSCULUS

<400> 5

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20 25 30

Thr Ala Ala Val Ser Ser Ser Phe Gln Cys Ala Leu Thr Lys Thr Gly
35 40 45

Phe Gln Phe Tyr Tyr Leu Pro Ala Val Tyr Ile Leu Val Phe Ile Ile
50 55 60

Gly Phe Leu Gly Asn Ser Val Ala Ile Trp Met Phe Val Phe His Met
65 70 75 80

Lys Pro Trp Ser Gly Ile Ser Val Tyr Met Phe Asn Leu Ala Leu Ala
85 90 95

Asp Phe Leu Tyr Val Leu Thr Leu Pro Ala Leu Ile Phe Tyr Tyr Phe
100 105 110

Asn Lys Thr Asp Trp Ile Phe Gly Asp Ala Met Cys Lys Leu Gln Arg
115 120 125

Phe Ile Phe His Val Asn Leu Tyr Gly Ser Ile Leu Phe Leu Thr Cys

130

135

140

Ile Ser Ala His Arg Tyr Ser Gly Val Val Tyr Pro Leu Lys Ser Leu
145 150 155 160

Gly Arg Leu Lys Lys Lys Asn Ala Ile Tyr Val Ser Val Leu Val Trp
165 170 175

Leu Ile Val Val Val Ala Ile Ser Pro Ile Leu Phe Tyr Ser Gly Thr
180 185 190

Gly Thr Arg Lys Asn Lys Thr Val Thr Cys Tyr Asp Thr Thr Ser Asn
195 200 205

Asp Tyr Leu Arg Ser Tyr Phe Ile Tyr Ser Met Cys Thr Thr Val Ala
210 215 220

Met Phe Cys Ile Pro Leu Val Leu Ile Leu Gly Cys Tyr Gly Leu Ile
225 230 235 240

Val Lys Ala Leu Ile Tyr Asn Asp Leu Asp Asn Ser Pro Leu Arg Arg
245 250 255

Lys Ser Ile Tyr Leu Val Ile Ile Val Leu Thr Val Phe Ala Val Ser
260 265 270

Tyr Ile Pro Phe His Val Met Lys Thr Met Asn Leu Arg Ala Arg Leu
275 280 285

Asp Phe Gln Thr Pro Glu Met Cys Asp Phe Asn Asp Arg Val Tyr Ala
290 295 300

Thr Tyr Gln Val Thr Arg Gly Leu Ala Ser Leu Asn Ser Cys Val Asp
305 310 315 320

Pro Ile Leu Tyr Phe Leu Ala Gly Asp Thr Phe Arg Arg Arg Leu Ser
325 330 335

Arg Ala Thr Arg Lys Ala Ser Arg Arg Ser Glu Ala Asn Ile Gln Ser
340 345 350

Lys Ser Glu Glu Met Thr Leu Asn Ile Leu Ser Glu Phe Lys Gln Asn
355 360 365

Gly Asp Thr Ser Leu
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<210> 6
<211> 373
<212> PRT
<213> RATTUS NORVEGICUS

<400> 6

Met Thr Glu Val Pro Trp Ser Ala Val Pro Asn Gly Thr Asp Ala Ala
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FOLIC ACID

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Thr Ala Ala Val Ser Ser Ser Phe Arg Cys Ala Leu Ile Lys Thr Gly
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Phe Gln Phe Tyr Tyr Leu Pro Ala Val Tyr Ile Leu Val Phe Ile Ile
50 55 60

Gly Phe Leu Gly Asn Ser Val Ala Ile Trp Met Phe Val Phe His Met
65 70 75 80

Lys Pro Trp Ser Gly Ile Ser Val Tyr Met Phe Asn Leu Ala Leu Ala
85 90 95

Asp Phe Leu Tyr Val Leu Thr Leu Pro Ala Leu Ile Phe Tyr Tyr Phe
100 105 110

Asn Lys Thr Asp Trp Ile Phe Gly Asp Val Met Cys Lys Leu Gln Arg
115 120 125

Phe Ile Phe His Val Asn Leu Tyr Gly Ser Ile Leu Phe Leu Thr Cys
130 135 140

Ile Ser Ala His Arg Tyr Ser Gly Val Val Tyr Pro Leu Lys Ser Leu
145 150 155 160

Gly Arg Leu Lys Lys Asn Ala Ile Tyr Val Ser Val Leu Val Trp
165 170 175

Leu Ile Val Val Val Ala Ile Ser Pro Ile Leu Phe Tyr Ser Gly Thr
180 185 190

Gly Ile Arg Lys Asn Lys Thr Val Thr Cys Tyr Asp Ser Thr Ser Asp
195 200 205

Glu Tyr Leu Arg Ser Tyr Phe Ile Tyr Ser Met Cys Thr Thr Val Ala
210 215 220

Met Phe Cys Ile Pro Leu Val Leu Ile Leu Gly Cys Tyr Gly Leu Ile
225 230 235 240

Val Arg Ala Leu Ile Tyr Lys Asp Leu Asp Asn Ser Pro Leu Arg Arg
245 250 255

Lys Ser Ile Tyr Leu Val Ile Ile Val Leu Thr Val Phe Ala Val Ser
260 265 270

Tyr Ile Pro Phe His Val Met Lys Thr Met Asn Leu Arg Ala Arg Leu
275 280 285

Asp Phe Gln Thr Pro Glu Met Cys Asp Phe Asn Asp Arg Val Tyr Ala
290 295 300

Thr Tyr Gln Val Thr Arg Gly Leu Ala Ser Leu Asn Ser Cys Val Asp
305 310 315 320

BOSTON TAURUS

Pro Ile Leu Tyr Phe Leu Ala Gly Asp Thr Phe Arg Arg Arg Leu Ser
325 330 335

Arg Ala Thr Arg Lys Ala Ser Arg Arg Ser Glu Ala Asn Leu Gln Ser
340 345 350

Lys Ser Glu Glu Met Thr Leu Asn Ile Leu Ser Glu Phe Lys Gln Asn
355 360 365

Gly Asp Thr Ser Leu
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<210> 7

<211> 373

<212> PRT

<213> BOS TAURUS

<400> 7

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Phe Leu Ala Asp Pro Gly Ser Pro Trp Gly Asn Ser Thr Val Thr Ser
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Thr Ala Ala Val Ala Ser Pro Phe Lys Cys Ala Leu Thr Lys Thr Gly
35 40 45

Phe Gln Phe Tyr Tyr Leu Pro Ala Val Tyr Ile Leu Val Phe Ile Ile
50 55 60

Gly Phe Leu Gly Asn Ser Val Ala Ile Trp Met Phe Val Phe His Met
65 70 75 80

Lys Pro Trp Ser Gly Ile Ser Val Tyr Met Phe Asn Leu Ala Leu Ala
85 90 95

Asp Phe Leu Tyr Val Leu Thr Leu Pro Ala Leu Ile Phe Tyr Tyr Phe
100 105 110

Asn Lys Thr Asp Trp Ile Phe Gly Asp Ala Met Cys Lys Leu Gln Arg
115 120 125

Phe Ile Phe His Val Asn Leu Tyr Gly Ser Ile Leu Phe Leu Thr Cys
130 135 140

Ile Ser Ala His Arg Tyr Ser Gly Val Val Tyr Pro Leu Lys Ser Leu
145 150 155 160

Gly Arg Leu Lys Lys Lys Asn Ala Val Tyr Ile Ser Val Leu Val Trp
165 170 175

Leu Ile Val Val Val Gly Ile Ser Pro Ile Leu Phe Tyr Ser Gly Thr
180 185 190

Gly Ile Arg Lys Asn Lys Thr Ile Thr Cys Tyr Asp Thr Thr Ser Asp
195 200 205

EST DATED 12/20/98

Glu Tyr Leu Arg Ser Tyr Phe Ile Tyr Ser Met Cys Thr Thr Val Ala
210 215 220

Met Phe Cys Val Pro Leu Val Leu Ile Leu Gly Cys Tyr Gly Leu Ile
225 230 235 240

Val Arg Ala Leu Ile Tyr Lys Asp Leu Asp Asn Ser Pro Leu Arg Arg
245 250 255

Lys Ser Ile Tyr Leu Val Ile Val Leu Thr Val Phe Ala Val Ser
260 265 270

Tyr Ile Pro Phe His Val Met Lys Thr Met Asn Leu Arg Ala Arg Leu
275 280 285

Asp Phe Gln Thr Pro Glu Met Cys Ala Phe Asn Asp Arg Val Tyr Ala
290 295 300

Thr Tyr Gln Val Thr Arg Gly Leu Ala Ser Leu Asn Ser Cys Val Asp
305 310 315 320

Pro Ile Leu Tyr Phe Leu Ala Gly Asp Thr Phe Arg Arg Arg Leu Ser
325 330 335

Arg Ala Thr Arg Lys Ala Ser Arg Arg Ser Glu Ala Asn Leu Gln Ser
340 345 350

Lys Ser Glu Asp Met Thr Leu Asn Ile Leu Ser Glu Phe Lys Gln Asn
355 360 365

Gly Asp Thr Ser Leu
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<210> 8
<211> 373
<212> PRT
<213> homo sapiens

<400> 8

Met Thr Glu Val Leu Trp Pro Ala Val Pro Asn Gly Thr Asp Ala Ala
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Phe Leu Ala Gly Pro Gly Ser Ser Trp Gly Asn Ser Thr Val Ala Ser
20 25 30

Thr Ala Ala Val Ser Ser Ser Phe Lys Cys Ala Leu Thr Lys Thr Gly
35 40 45

Phe Gln Phe Tyr Tyr Leu Pro Ala Val Tyr Ile Leu Val Phe Ile Ile
50 55 60

Gly Phe Leu Gly Asn Ser Val Ala Ile Trp Met Phe Val Phe His Met
65 70 75 80

Lys Pro Trp Ser Gly Ile Ser Val Tyr Met Phe Asn Leu Ala

HODGEPODGE

Asp Phe Leu Tyr Val	85	Leu Thr Leu Pro Ala	90	Ile Phe Tyr Tyr Phe	95
100		105		110	
Asn Lys Thr Asp Trp Ile		Phe Gly Asp Ala Met Cys		Lys Leu Gln Arg	
115		120		125	
Phe Ile Phe His Val Asn		Leu Tyr Gly Ser Ile		Leu Phe Leu Thr Cys	
130		135		140	
Ile Ser Ala His Arg Tyr		Ser Gly Val Val		Tyr Pro Leu Lys Ser	
145		150		155	Leu
Gly Arg Leu Lys Lys Asn Ala		Ile Cys Ile Ser Val		Leu Val Trp	
165		170		175	
Leu Ile Val Val Val Ala		Ile Ser Pro Ile		Leu Phe Tyr Ser Gly	
180		185		190	Thr
Gly Val Arg Lys Asn Lys		Thr Ile Thr Cys Tyr		Asp Thr Thr Ser Asp	
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Glu Tyr Leu Arg Ser Tyr		Phe Ile Tyr Ser Met		Cys Thr Thr Val Ala	
210		215		220	
Met Phe Cys Val Pro		Leu Val Leu Ile		Gly Cys Tyr Gly Leu	
225		230		235	Ile
Val Arg Ala Leu Ile		Tyr Lys Asp Leu		240	
245		Asp Asn Ser Pro		Leu Arg Arg	
Lys Ser Ile Tyr Leu Val		Ile Val Leu Thr Val		255	
260		265		270	
Tyr Ile Pro Phe His Val		Met Lys Thr Met Asn		Leu Arg Ala Arg Leu	
275		280		285	
Asp Phe Gln Thr Pro Ala		Met Cys Ala Phe Asn		Asp Arg Val Tyr Ala	
290		295		300	
Thr Tyr Gln Val Thr Arg		Gly Leu Ala Ser		Leu Asn Ser Cys Val	
305		310		Asp	320
Pro Ile Leu Tyr Phe		Leu Ala Gly Asp		Thr Phe Arg Arg Arg	
325		330		Leu Ser	
Arg Ala Thr Arg Lys Ala		Ser Arg Arg Ser		335	
340		345		Glu Ala Asn Leu	
Lys Ser Glu Asp Met Thr		350		Gln Ser	
355		360		365	
Gly Asp Thr Ser Leu					
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<211> 361
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Ser Ser Gly Asp Gly Asp Cys Arg Phe Asn Glu Glu Phe Lys Phe Ile
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35 40 45

Asn Ala Pro Thr Leu Trp Leu Phe Leu Phe Arg Leu Arg Pro Trp Asp
50 55 60

Ala Thr Ala Thr Tyr Met Phe His Leu Ala Leu Ser Asp Thr Leu Tyr
65 70 75 80

Val Leu Ser Leu Pro Thr Leu Val Tyr Tyr Tyr Ala Ala Arg Asn His
85 90 95

Trp Pro Phe Gly Thr Gly Leu Cys Lys Phe Val Arg Phe Leu Phe Tyr
100 105 110

Trp Asn Leu Tyr Cys Ser Val Leu Phe Leu Thr Cys Ile Ser Val His
115 120 125

Arg Tyr Leu Gly Ile Cys His Pro Leu Arg Ala Ile Arg Trp Gly Arg
130 135 140

Pro Arg Phe Ala Ser Leu Leu Cys Leu Gly Val Trp Leu Val Val Ala
145 150 155 160

Gly Cys Leu Val Pro Asn Leu Phe Phe Val Thr Thr Asn Ala Asn Gly
165 170 175

Thr Thr Ile Leu Cys His Asp Thr Thr Leu Pro Glu Glu Phe Asp His
180 185 190

Tyr Val Tyr Phe Ser Ser Ala Val Met Val Leu Leu Phe Gly Leu Pro
195 200 205

Phe Leu Ile Thr Leu Val Cys Tyr Gly Leu Met Ala Arg Arg Leu Tyr
210 215 220

Arg Pro Leu Pro Gly Ala Gly Gln Ser Ser Ser Arg Leu Arg Ser Leu
225 230 235 240

Arg Thr Ile Ala Val Val Leu Thr Val Phe Ala Val Cys Phe Val Pro
245 250 255

Phe His Ile Thr Arg Thr Ile Tyr Tyr Gln Ala Arg Leu Leu Gln Ala
260 265 270

1000000000-1000000000

Asp Cys His Val Leu Asn Ile Val Asn Val Val Tyr Lys Val Thr Arg
275 280 285

Pro Leu Ala Ser Ala Asn Ser Cys Leu Asp Pro Val Leu Tyr Leu Phe
290 295 300

Thr Gly Asp Lys Tyr Arg Asn Gln Leu Gln Gln Leu Cys Arg Gly Ser
305 310 315 320

Lys Pro Lys Pro Arg Thr Ala Ala Ser Ser Leu Ala Leu Val Thr Leu
325 330 335

His Glu Glu Ser Ile Ser Arg Trp Ala Asp Thr His Gln Asp Ser Thr
340 345 350

Phe Ser Ala Tyr Glu Gly Asp Arg Leu
355 360

<210> 10
<211> 328
<212> PRT
<213> homo sapiens

<400> 10

Met Ser Met Ala Asn Phe Thr Gly Gly Arg Asn Ser Cys Thr Phe His
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Glu Glu Phe Lys Gln Val Leu Leu Pro Leu Val Tyr Ser Val Val Phe
20 25 30

Leu Leu Gly Leu Pro Leu Asn Ala Val Val Ile Gly Gln Ile Trp Leu
35 40 45

Ala Arg Lys Ala Leu Thr Arg Thr Thr Ile Tyr Met Leu Asn Leu Ala
50 55 60

Met Ala Asp Leu Leu Tyr Val Cys Ser Leu Pro Leu Leu Ile Tyr Asn
65 70 75 80

Tyr Thr Gln Lys Asp Tyr Trp Pro Phe Gly Asp Phe Thr Cys Lys Phe
85 90 95

Val Arg Phe Gln Phe Tyr Thr Asn Leu His Gly Ser Ile Leu Phe Leu
100 105 110

Thr Cys Ile Ser Val Gln Arg Tyr Met Gly Ile Cys His Pro Leu Ala
115 120 125

Ser Trp His Lys Lys Gly Lys Lys Leu Thr Trp Leu Val Cys Ala
130 135 140

Ala Val Trp Phe Ile Val Ile Ala Gln Cys Leu Pro Thr Phe Val Phe
145 150 155 160

Ala Ser Thr Gly Thr Gln Arg Asn Arg Thr Val Cys Tyr Asp Leu Ser
165 170 175

MELEAGRIS GALLOPAVO

Pro Pro Asp Arg Ser Thr Ser Tyr Phe Pro Tyr Gly Ile Thr Leu Thr
180 185 190
Ile Thr Gly Phe Leu Leu Pro Phe Ala Ala Ile Leu Ala Cys Tyr Cys
195 200 205
Ser Met Ala Arg Ile Leu Cys Gln Lys Asp Glu Leu Ile Gly Leu Ala
210 215 220
Val His Lys Lys Asp Lys Ala Val Arg Met Ile Ile Val Val
225 230 235 240
Ile Val Phe Ser Ile Ser Phe Phe Pro His Leu Thr Lys Thr Ile
245 250 255
Tyr Leu Ile Val Arg Ser Ser Ala Ser Leu Pro Cys Pro Thr Leu Gln
260 265 270
Ala Phe Ala Ile Ala Tyr Lys Cys Thr Arg Pro Phe Ala Ser Met Asn
275 280 285
Ser Val Leu Asp Pro Ile Leu Phe Tyr Phe Thr Gln Arg Lys Phe Arg
290 295 300
Glu Ser Thr Arg Tyr Leu Leu Asp Lys Met Ser Ser Lys Trp Arg Gln
305 310 315 320
Asp His Cys Ile Ser Tyr Gly Ser
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<210> 11
<211> 374
<212> PRT
<213> MELEAGRIS GALLOPAVO
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Met Asp Ala Pro Val Arg Met Phe Ser Leu Ala Pro Trp Thr Pro Thr
1 5 10 15
Pro Thr Pro Trp Leu Gly Gly Asn Thr Thr Ala Ala Ala Glu Ala Lys
20 25 30
Cys Val Phe Asn Glu Glu Phe Lys Phe Ile Leu Leu Pro Ile Ser Tyr
35 40 45
Gly Ile Val Phe Val Val Gly Leu Pro Leu Asn Ser Trp Ala Met Trp
50 55 60
Ile Phe Val Ser Arg Met Arg Pro Trp Asn Ala Thr Thr Thr Tyr Met
65 70 75 80
Phe Asn Leu Ala Ile Ser Asp Thr Leu Tyr Val Phe Ser Leu Pro Thr
85 90 95
Leu Val Tyr Tyr Tyr Ala Asp Arg Asn Asn Trp Pro Phe Gly Lys Val

DECODED PROTEIN

100	105	110
Phe Cys Lys Ile Val Arg Phe Leu Phe Tyr Ala Asn Leu Tyr Ser Ser		
115	120	125
Ile Leu Phe Leu Thr Cys Ile Ser Val His Arg Tyr Met Gly Ile Cys		
130	135	140
His Pro Ile Arg Ser Leu Lys Trp Val Lys Thr Lys His Ala Arg Leu		
145	150	155
160		
Ile Cys Val Gly Val Trp Leu Val Val Thr Ile Cys Leu Ile Pro Asn		
165	170	175
Leu Ile Phe Val Thr Thr Ser Ser Lys Asp Asn Ser Thr Leu Cys His		
180	185	190
Asp Thr Thr Lys Pro Glu Glu Phe Asp His Tyr Val His Tyr Ser Ser		
195	200	205
Ser Ile Met Ala Leu Leu Phe Gly Ile Pro Phe Leu Val Ile Val Val		
210	215	220
Cys Tyr Cys Leu Met Ala Lys Arg Leu Cys Lys Arg Ser Phe Pro Ser		
225	230	235
240		
Pro Ser Pro Arg Val Pro Ser Tyr Lys Lys Arg Ser Ile Lys Met Ile		
245	250	255
Ile Ile Val Leu Thr Val Phe Ala Ile Cys Phe Val Pro Phe His Ile		
260	265	270
Thr Arg Thr Leu Tyr Tyr Thr Ser Arg Tyr Phe Gln Ala Asp Cys Gln		
275	280	285
Thr Leu Asn Ile Ile Asn Phe Thr Tyr Lys Ile Thr Arg Pro Leu Ala		
290	295	300
Ser Ile Asn Ser Cys Leu Asp Pro Ile Leu Tyr Phe Met Ala Gly Asp		
305	310	315
320		
Lys Tyr Arg Gly Arg Leu Arg Arg Gly Ala Ala Gln Arg Pro Arg Pro		
325	330	335
Val Pro Thr Ser Leu Leu Ala Leu Val Ser Pro Ser Val Asp Ser Ser		
340	345	350
Val Val Gly Ser Cys Cys Asn Ser Glu Ser Arg Gly Met Gly Thr Val		
355	360	365
Trp Ser Arg Gly Gly Gln		
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<211> 537		
<212> PRC		
<213> XENOPUS LAEVIS		

100% IDENTICAL

<400> 12

Met Thr Glu Asp Ile Met Ala Thr Ser Tyr Pro Thr Phe Leu Thr Thr
1 5 10 15

Pro Tyr Leu Pro Met Lys Leu Leu Met Asn Leu Thr Asn Asp Thr Glu
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Asp Ile Cys Val Phe Asp Glu Gly Phe Lys Phe Leu Leu Pro Val
35 40 45

Ser Tyr Ser Ala Val Phe Met Val Gly Leu Pro Leu Asn Ile Ala Ala
50 55 60

Met Trp Ile Phe Ile Ala Lys Met Arg Pro Trp Asn Pro Thr Thr Val
65 70 75 80

Tyr Met Phe Asn Leu Ala Leu Ser Asp Thr Leu Tyr Val Leu Ser Leu
85 90 95

Pro Thr Leu Val Tyr Tyr Ala Asp Lys Asn Asn Trp Pro Phe Gly
100 105 110

Glu Val Leu Cys Lys Leu Val Arg Phe Leu Phe Tyr Ala Asn Leu Tyr
115 120 125

Ser Ser Ile Leu Phe Leu Thr Cys Ile Ser Val His Arg Tyr Arg Gly
130 135 140

Val Cys His Pro Ile Thr Ser Leu Arg Arg Met Asn Ala Lys His Ala
145 150 155 160

Tyr Val Ile Cys Ala Leu Val Trp Leu Ser Val Thr Leu Cys Leu Val
165 170 175

Pro Asn Leu Ile Phe Val Thr Val Ser Pro Lys Val Lys Asn Thr Ile
180 185 190

Cys His Asp Thr Thr Arg Pro Glu Asp Phe Ala Arg Tyr Val Glu Tyr
195 200 205

Ser Thr Ala Ile Met Cys Leu Leu Phe Gly Ile Pro Cys Leu Ile Ile
210 215 220

Ala Gly Cys Tyr Gly Leu Met Thr Arg Glu Leu Met Lys Pro Ile Val
225 230 235 240

Ser Gly Asn Gln Gln Thr Leu Pro Ser Tyr Lys Lys Arg Ser Ile Lys
245 250 255

Thr Ile Ile Phe Val Met Ile Ala Phe Ala Ile Cys Phe Met Pro Phe
260 265 270

His Ile Thr Arg Thr Leu Tyr Tyr Ala Arg Leu Leu Gly Ile Lys
275 280 285

Cys Tyr Ala Leu Asn Val Ile Asn Val Thr Tyr Lys Val Thr Arg Pro
 290 295 300
 Leu Ala Ser Ala Asn Ser Cys Ile Asp Pro Ile Leu Tyr Phe Leu Ala
 305 310 315 320
 Asn Asp Arg Tyr Arg Arg Arg Leu Ile Arg Thr Val Arg Arg Arg Ser
 325 330 335
 Ser Val Pro Asn Arg Arg Cys Met His Thr Asn His Pro Gln Thr Glu
 340 345 350
 Pro His Met Thr Ala Gly Pro Leu Pro Val Ile Ser Ala Glu Glu Ile
 355 360 365
 Pro Ser Asn Gly Ser Met Val Arg Asp Glu Asn Gly Glu Gly Ser Arg
 370 375 380
 Glu His Arg Val Glu Trp Thr Asp Thr Lys Glu Ile Asn Gln Met Met
 385 390 395 400
 Asn Arg Arg Ser Thr Ile Lys Arg Asn Ser Thr Asp Lys Asn Asp Met
 405 410 415
 Lys Glu Asn Arg His Gly Glu Asn Tyr Leu Pro Tyr Val Glu Val Val
 420 425 430
 Glu Lys Glu Asp Tyr Glu Thr Lys Arg Glu Asn Arg Lys Thr Thr Glu
 435 440 445
 Gln Ser Ser Lys Thr Asn Ala Glu Gln Asp Glu Leu Gln Thr Gln Ile
 450 455 460
 Asp Ser Arg Leu Lys Arg Gly Lys Trp Gln Leu Ser Ser Lys Lys Gly
 465 470 475 480
 Ala Ala Gln Glu Asn Glu Lys Gly His Met Glu Pro Ser Phe Glu Gly
 485 490 495
 Glu Gly Thr Ser Thr Trp Asn Leu Leu Thr Pro Lys Met Tyr Gly Lys
 500 505 510
 Lys Asp Arg Leu Ala Lys Asn Val Glu Glu Val Gly Tyr Gly Lys Glu
 515 520 525
 Lys Glu Leu Gln Asn Phe Pro Lys Ala
 530 535
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 <211> 3 / 4
 <212> PRT
 <213> RATTUS NORVEGICUS
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 Met Ala Ala Gly Leu Asp Ser Trp Asn Ser Thr Ile Asn Gly Thr Trp
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1600-4000-8000-2000

Glu Gly Asp Glu Leu Gly Tyr Lys Cys Arg Phe Asn Glu Asp Phe Lys
20 25 30

Tyr Val Leu Leu Pro Val Ser Tyr Gly Val Val Cys Val Leu Gly Leu
35 40 45

Cys Leu Asn Val Val Ala Leu Tyr Ile Phe Leu Cys Arg Leu Lys Thr
50 55 60

Trp Asn Ala Ser Thr Thr Tyr Met Phe His Leu Ala Val Ser Asp Ser
65 70 75 80

Leu Tyr Ala Ala Ser Leu Pro Leu Leu Val Tyr Tyr Tyr Ala Gln Gly
85 90 95

Asp His Trp Pro Phe Ser Thr Val Leu Cys Lys Leu Val Arg Phe Leu
100 105 110

Phe Tyr Thr Asn Leu Tyr Cys Ser Ile Leu Phe Leu Thr Cys Ile Ser
115 120 125

Val His Arg Cys Leu Gly Val Leu Arg Pro Leu His Ser Leu Ser Trp
130 135 140

Gly His Ala Arg Tyr Ala Arg Arg Val Ala Ala Val Val Trp Val Leu
145 150 155 160

Val Leu Ala Cys Gln Ala Pro Val Leu Tyr Phe Val Thr Thr Ser Val
165 170 175

Arg Gly Thr Arg Ile Thr Cys His Asp Thr Ser Ala Arg Glu Leu Phe
180 185 190

Ser His Phe Val Ala Tyr Ser Ser Val Met Leu Gly Leu Leu Phe Ala
195 200 205

Val Pro Phe Ser Ile Ile Leu Val Cys Tyr Val Leu Met Ala Arg Arg
210 215 220

Leu Leu Lys Pro Ala Tyr Gly Thr Thr Gly Leu Pro Arg Ala Lys Arg
225 230 235 240

Lys Ser Val Arg Thr Ile Ala Leu Val Leu Ala Val Phe Ala Leu Cys
245 250 255

Phe Leu Pro Phe His Val Thr Arg Thr Leu Tyr Tyr Ser Phe Arg Ser
260 265 270

Leu Asp Leu Ser Cys His Thr Leu Asn Ala Ile Asn Met Ala Tyr Lys
275 280 285

Ile Thr Arg Pro Leu Ala Ser Ala Asn Ser Cys Leu Asp Pro Val Leu
290 295 300

Tyr Phe Leu Ala Gly Gln Arg Leu Val Arg Phe Ala Arg Asp Ala Lys
305 310 315 320

Pro Ala Thr Glu Pro Thr Pro Ser Pro Gln Ala Arg Arg Lys Leu Gly
325 330 335

Leu His Arg Pro Asn Arg Thr Asp Thr Val Arg Lys Asp Leu Ser Ile
340 345 350

Ser Ser Asp Asp Ser Arg Arg Thr Glu Ser Thr Pro Ala Gly Ser Glu
355 360 365

Thr Lys Asp Ile Arg Leu
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<210> 14

<211> 328

<212> PRT

<213> GALLUS GALLUS

<400> 14

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Glu Glu Phe Lys Gln Val Leu Leu Pro Leu Val Tyr Ser Val Val Phe
20 25 30

Leu Leu Gly Leu Pro Leu Asn Ala Val Val Ile Gly Gln Ile Trp Leu
35 40 45

Ala Arg Lys Ala Leu Thr Arg Thr Thr Ile Tyr Met Leu Asn Leu Ala
50 55 60

Met Ala Asp Leu Leu Tyr Val Cys Ser Leu Pro Leu Leu Ile Tyr Asn
65 70 75 80

Tyr Thr Gln Lys Asp Tyr Trp Pro Phe Gly Asp Phe Thr Cys Lys Phe
85 90 95

Val Arg Phe Gln Phe Tyr Thr Asn Leu His Gly Ser Ile Leu Phe Leu
100 105 110

Thr Cys Ile Ser Val Gln Arg Tyr Met Gly Ile Cys His Pro Leu Ala
115 120 125

Ser Trp His Lys Lys Gly Lys Lys Leu Thr Trp Leu Val Cys Ala
130 135 140

Ala Val Trp Phe Ile Val Ile Ala Gln Cys Leu Pro Thr Phe Val Phe
145 150 155 160

Ala Ser Thr Gly Thr Gln Arg Asn Arg Thr Val Cys Tyr Asp Leu Ser
165 170 175

Pro Pro Asp Arg Ser Thr Ser Tyr Phe Pro Tyr Gly Ile Thr Leu Thr
180 185 190

Ile Thr Gly Phe Leu Leu Pro Phe Ala Ala Ile Leu Ala Cys Tyr Cys

EPOC 10000

195	200	205
Ser Met Ala Arg Ile Leu Cys Gln Lys Asp Glu Leu Ile Gly Leu Ala		
210	215	220
Val His Lys Lys Lys Asp Lys Ala Val Arg Met Ile Ile Ile Val Val		
225	230	235
Ile Val Phe Ser Ile Ser Phe Phe Pro Phe His Leu Thr Lys Thr Ile		
245	250	255
Tyr Leu Ile Val Arg Ser Ser Ala Ser Leu Pro Cys Pro Thr Leu Gln		
260	265	270
Ala Phe Ala Ile Ala Tyr Lys Cys Thr Arg Pro Phe Ala Ser Met Asn		
275	280	285
Ser Val Leu Asp Pro Ile Leu Phe Tyr Phe Thr Gln Arg Lys Phe Arg		
290	295	300
Glu Ser Thr Arg Tyr Leu Leu Asp Lys Met Ser Ser Lys Trp Arg Gln		
305	310	315
Asp His Cys Ile Ser Tyr Gly Ser		
325		
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Asp Tyr Lys Asp Asp Asp Asp Lys		
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aattcgaggg tgcaccgtca gtcttctct tccccccaaa acccaaggac accctcatga	120	
tctcccgac tcctgaggc acatgcgtgg tggtgacgt aagccacgaa gaccctgagg	180	
tcaagttcaa ctgglacgtg gacggcgtgg aggtgcataa tgccaagaca aagccgcggg	240	
aggagcgtta caacagcacy taccgtgtgg tcagcgtctt caccgtctg caccaggact	300	
ggctgaatgg caaggagtac aagtgcagg tctccaacaa agccctccca acccccacatcg	360	
agaaaaccat ctccaaagcc aaagggcagc cccgagaacc acagggtgtac accctgcccc	420	
catccccggga tgagctgacc aagaaccagg tcagcctgac ctgcctggtc aaaggcttct	480	

atccaaggca catggccgtg gagtgggaga gcaatggca gccggagaac aactacaaga 540
ccacgcctcc cgtgctggac tccgacggct cttcttcct ctacagcaag ctcaccgtgg 600
acaagagcag gtggcagcag gggaaacgtct tctcatgctc cgtgatgcat gaggctctgc 660
acaaccacta cacgcagaag agcctctccc tgtctccggg taaatgagtg cgacggccgc 720
gactctagag gat 733

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<212> PRT
<213> homo sapiens

<400> 17

Tyr Leu Pro Val Ile Tyr Gly Ile Ile Phe Leu Val Gly Phe Pro Gly
1 5 10 15

Asn Ala Val Val Ile Ser Thr Tyr Ile Phe
20 25

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<211> 30
<212> PRT
<213> homo sapiens

<400> 18

Ser Ser Thr Ile Ile Met Leu Asn Leu Ala Cys Thr Asp Leu Leu Tyr
1 5 10 15

Leu Thr Ser Leu Pro Phe Leu Ile His Tyr Tyr Ala Ser Gly
20 25 30

<210> 19
<211> 22
<212> PRT
<213> homo sapiens

<400> 19

Phe Asn Leu Tyr Ser Ser Ile Leu Phe Leu Thr Cys Phe Ser Ile Phe
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Arg Tyr Cys Val Ile Ile
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<210> 20
<211> 23
<212> PRT
<213> homo sapiens

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Ala Val Val Ala Cys Ala Val Val Trp Ile Ile Ser Leu Val Ala Val
1 5 10 15

Ile Pro Met Thr Phe Leu Ile
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<210> 21
<211> 21
<212> PRT
<213> homo sapiens

<400> 21

Trp Tyr Asn Leu Ile Leu Thr Ala Thr Thr Phe Cys Leu Pro Leu Val
1 5 10 15

Ile Val Thr Leu Cys
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<210> 22
<211> 22
<212> PRT
<213> homo sapiens

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Leu Thr Ile Leu Leu Leu Ala Phe Tyr Val Cys Phe Leu Pro Phe
1 5 10 15

His Ile Leu Arg Val Ile
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<210> 23
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<213> homo sapiens

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Tyr Val Val Val
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Leu Asp Tyr Leu Ala Asn Ala Ser Asp Phe Pro Asp Tyr Ala
1 5 10

<210> 25

<211> 14
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Ala Ala Ala Phe Gly Asn Cys Thr Asp Glu Asn Ile Pro Leu
1 5 10

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Leu Ile Thr Ser Thr Asn Arg Thr Asn Arg Ser Ala Cys Leu
1 5 10

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<211> 14
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1 5 10

<210> 28

<211> 13
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<400> 28

Phe Leu Ile Thr Ser Thr Asn Arg Thr Asn Arg Ser Ala
1 5 10

<210> 29

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Thr Ser Thr Asn Arg Thr Asn Arg Ser Ala Cys Leu Asp
1 5 10

<210> 30

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Ser Asp Glu Leu Asn Thr Ile Lys Trp Tyr Asn Leu Ile

1 5 10

<210> 31
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<400> 31

Gln Ala Val Cys Ser Thr Val Arg Cys Lys Val Ser Gly
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<400> 32

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<210> 33
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<400> 33

aatatttcaa qgggttgttg 20

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<213> homo sapiens

<400> 34

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<211> 20
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<400> 35

gatccgaatg accctcaaga 20

<210> 36
<211> 36
<212> DNA
<213> Homo sapiens

<400> 36

ccgcttagcgc atgaatgagc cactagacta tttagc 36

FOOTER

<210> 37
<211> 68
<212> DNA
<213> Homo sapiens

<400> 37
cgggatccct attacttgc gtcgtcgcc ttgttagttca tagggttgtt tgagtaacta 60
attttctt 68

<210> 38
<211> 24
<212> DNA
<213> Homo sapiens

<400> 38
gaggatgagg agagctatga caca 24

<210> 39
<211> 22
<212> DNA
<213> Homo sapiens

<400> 39
cccttgcac tcataacgtc ag 22

<210> 40
<211> 29
<212> DNA
<213> Homo sapiens

<400> 40
aaacacacacag tcatcatagg gcagctcg 29

<210> 41
<211> 39
<212> DNA
<213> Homo sapiens

<400> 41
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<210> 42
<211> 37
<212> DNA
<213> Homo sapiens

<400> 42
gcagcagtcg acagggttgt ttgagtaact aattttc 37

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<211> 39
<212> DNA
<213> Homo sapiens

<400> 43
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<210> 44
<211> 34
<212> DNA
<213> Homo sapiens

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<210> 45
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<400> 45
Lys Met Arg Pro Trp Lys
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<210> 46
<211> 18
<212> PRT
<213> Homo sapiens

<400> 46
Glu Asn Trp Ile Phe Gly Asp Phe Met Cys Lys Phe Ile Arg Phe Ser
1 5 10 15

Phe His

<210> 47
<211> 18
<212> PRT
<213> Homo sapiens

<400> 47
His Pro Met Ser Cys Phe Ser Ile His Lys Thr Arg Cys Ala Val Val
1 5 10 15

Ala Cys

<210> 48
<211> 24
<212> PRT
<213> Homo sapiens

40040560-200303

<400> 48

Thr Ser Thr Asn Arg Thr Asn Arg Ser Ala Cys Leu Asp Leu Thr Ser
1 5 10 15
Ser Asp Glu Leu Asn Thr Ile Lys
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<210> 49

<211> 24
<212> PRT
<213> Homo sapiens

<400> 49

Tyr Thr Thr Ile Ile His Thr Leu Thr His Gly Leu Gln Thr Asp Ser
1 5 10 15

Cys Leu Lys Gln Lys Ala Arg Arg
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<210> 50

<211> 22
<212> PRT
<213> Homo sapiens

<400> 50

Arg Ile Glu Ser Arg Leu Leu Ser Ile Ser Cys Ser Ile Glu Asn Gln
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Ile His Glu Ala Tyr Ile
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25

<210> 52

<211> 25
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<220>
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<400> 52

ttagcaatg gcaucuccug cagcc

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Sequence # 420204

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<400> 53
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<210> 54
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<220>
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<400> 54
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<210> 55
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<220>
<223> Synthesized Oligonucleotide.

<400> 55
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